

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph beginning on page 9, line 20 and continuing through page 10, line 3 as follows:

The measured energy levels for each color are obtained using the same exposure time, but because the illuminant may have non-uniform intensity over the different colors, the measured energy levels for different colors may be different. For this example, since the intensity of the illuminant is highest at blue, the total shutter control signal pulse widths for red and green would be larger than for ~~red~~blue, in proportion to the ratios described above. This allows the photosites capturing red and green to be integrated over a longer period of time.

Please amend the paragraph beginning on page 13, line 8, as follows:

Figure 4 illustrates one embodiment of control 308 configured to generate different integration times with an integration time generation unit 402, a red channel pulse generation unit 406, a green channel pulse generation unit 410, and a blue channel pulse generation unit 414. A red duty cycle register 404, a green duty cycle register 408, and a blue duty cycle register ~~410~~412 are connected to red channel pulse generation unit 406, green channel pulse generation unit 410, and blue channel pulse generation unit 414, respectively. Each of the duty cycle registers are programmed to a particular duty cycle to generate the proper pulses for that color. The pulse generation units generate the set of sample signals for the sub-pulses that make up the complete pulse. Integration time generation unit 402 provides the total integration time for the capture of each frame.